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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 9**Complete if Known**

Application Number	<del>Not Yet Assigned</del> 10/648,682
Filing Date	8/22/03
First Named Inventor	Fernandez, D.
Art Unit	<del>Not yet Assigned</del> 16.81
Examiner Name	<del>Not yet Assigned</del> M. Miller
Attorney Docket Number	Fern-8013

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
MM	20	US- 2002/0151816 A1	10/17/2002	Rich, et al.	
	21	US- 6,458,086 B1	10/01/2002	Fraco, et al.	
	22	US- 6,575,912 B1	06/10/2003	Turcott	
	23	US- 6,409,674 B1	06/25/2002	Brockway, et al.	
	24	US- 6,272,349 B1	08/07/2001	Fischell, et al.	
	25	US- 6,112,116	08/29/2000	Fischell, et al.	
	26	US- 5,076,271	12/31/1991	Lekholm, et al.	
	27	US- 5,328,847	7/12/1994	Case, et al.	
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**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner  
Signature*M. Miller*

Date

Considered

5/2/2006

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Art Unit	NOT YET ASSIGNED / 631
Examiner Name	NOT YET ASSIGNED M. Miller
Attorney Docket Number	FERN - P013

Sheet 3 of 9

**NON PATENT LITERATURE DOCUMENTS**

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	1.	AFFECTIVE JEWELRY ; AFFECTIVE COMPUTING RESEARCH PROJECT, BY JENNIFER HEALEY & GRANT GOULD.	
	2.	HYBRID BIOSENSORS ; DAVID A. BORKHOLDER, B. DEREK DE BUSSCHERE, DAVID STENGER	
	3.	BIOSENSORS ; CINDY TONNESEN AND GARY WITHROW ; HTTP : // WWW. HITL. WASHINGTON.EDU / SCIUW / EVE / I.D. 1. C. BIOSENSORS. HTML.	
	4.	PORTABLE CELL-BASED BIOSENSORS ; B. DEREK DEBUSSCHERE AND GREGORY. T. A. KOVACS ; ELECTRICAL ENGINEERING DEPARTMENT, CENTER FOR INTEGRATED SYSTEMS, STANFORD UNIVERSITY	
	5.	PLASTIC-BASED DISPOSABLE SMART BIOCHIPS WITH INTEGRATED BIOSENSORS FOR BLOOD ANALYSIS AND CLINICAL DIAGNOSTICS ; CHONG H. AHN & JIN-WOO CHOI, MICRO SYSTEMS AND BIOMEMS LAB. DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING AND COMPUTER SCIENCE, UNIVERSITY OF CINCINNATI	
	6.	PAUL ELIAS ; "BIOTECH INVESTORS TURN TO MOVE EXOTIC MANIPULATION" MAIL & GUARDIAN ONLINE, WEDNESDAY, JULY 09, 2003	

Examiner Signature	M. Miller	Date Considered	5.2.2006
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		Filing Date	8/22/03
		First Named Inventor	FERNANDEZ, D.
		Art Unit	NOT YET ASSIGNED 1631
		Examiner Name	NOT YET ASSIGNED M. Miller
Sheet 4 of 9	Attorney Docket Number	FERN- P013	

NON PATENT LITERATURE DOCUMENTS			
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	7.	JIM ROGERS, JULIE QUICK, "USDA STRENGTHENS 2003 PERMIT CONDITIONS FOR FIELD TESTING GENETICALLY ENGINEERED PLANTS."	
MM	8.	HUI DU, MATTHEW D. DISNEY, BENJAMIN L. MILLER, AND TODD D. KRAUS; "HYBRIDIZATION-BASED UNQUENCHING OF DNA HAIRPINS ON Au SURFACES."	
		PROTOTYPICAL "MOLECULAR BEACON" BIOSENSORS." JACS; J. AM. CHEM. SOC., 125: 4012-13 (2003).	
MM	9.	THE OUTCRY OVER "TERMINATOR" GENES IN FOOD; BUSINESSWEEK ON LINE; P. 1-3; RETRIEVED 7.14.2003 <a href="http://www.businessweek.com/print/magazine/content/03-28/b3841091.htm?">http://www.businessweek.com/print/magazine/content/03-28/b3841091.htm?</a>	
MM	10.	"MORE DELICIOUS DELICACIES, THANKS TO TECH". BUSINESSWEEK ON LINE; P. 1-3; RETRIEVED 7.18.2003. <a href="http://www.businessweek.com/print/technology/content/jul2003/tc2003078">http://www.businessweek.com/print/technology/content/jul2003/tc2003078</a>	
	11.	"FOOD SAFETY IN THE FOOD MANUFACTURING INDUSTRY"; PAUL SAVELLO; DAIRY TECHNOLOGY SPECIALIST USATO-RDS; ARTICLE IN 'KONA - DITORE' - 11 DECEMBER, 2002	
MM	12.	"FOOD SCIENTISTS TO ASSESS BIOTERRORISM RISK"; REUTERS JULY 15, 2003; at <a href="http://www.REUTERS.COM">http://www.REUTERS.COM</a> ; RETRIEVED 7.15.2003; ONE PAGE	
MM	13.	HAO WU, WILLIAM N. HAIT & JIN-MING YANG; "SMALL INTERFERING RNA-INDUCED SUPPRESSION OF MDR1 (P-GLYCOPROTEIN) RESTORES SENSITIVITY TO MULTIDRUG-RESISTANT CANCER CELLS; CANCER RESEARCH, 63:1515-1516 (4.1.2003).	

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		First Named Inventor	FERNANDEZ, D.
		Art Unit	NOT YET ASSIGNED 1631
		Examiner Name	NOT YET ASSIGNED M. Miller
		Attorney Docket Number	FERN-2013
Sheet	5	of	9

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	14.	LABORATORY TESTS THAT DETECT CANCER; THE CANCER CURE FOUNDATION WWW.CANCURE.ORG.	✓
	15.	CANCER SLEUTHING; SF CHRONICLE, BUSINESS SECTION; SUNDAY JULY 6, 2003	✓
MM	16.	RAJA MISHRA; ADVANCES BEGIN TO TAME CANCER; RETRIEVED 7/6/2003 HTTP://WWW.BOSTON.COM/DAILYGLOBE/187/METRO/ADVANCES;	5 pages
	17.	NEW TEST MAY IMPROVE CANCER DETECTION; REUTERS; JULY 17, 2003; http://www.reuters.com/newsArticle.jhtml?type=healthNews &storyID=3112050&fromEmail=true	
MM	18.	GENOMIC ADVANCES OF PAST DECADE ARE REAL: ORDONEZ; By TONY STRATTNER, BIO-IT WORLD. http://www.imakenews.com/health-itworld/e-article 000165177.cfm; x=qlvsry1,avfbgjn; RETRIEVED 7-10-2003; (3 pages)	
	19.	GENE PROFILING MAY HELP TREAT CANCER; Procedure could reduce unnecessary use of certain drugs.	
MM	20.	BIOSENSORS: MICROELECTRONICS MARRIES BIOLOGY; BY JENNIFER THE INDUSTRIAL PHYSICS, P. 11-12; 14 QUELLETTE; SEPTEMBER 1998 @ AMERICAN INSTITUTE OF PHYSICS	
	21.	CMOS-ONLY SENSORS AND MANIPULATORS FOR MICROORGANISMS; G. MEDORO, N. MANARES, M. TARTAGNI AND R. GUERRIERI	✓

Examiner Signature	<i>M. Miller</i>	Date Considered	5.2.2006
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		First Named Inventor	FERNANDEZ, D.
		Art Unit	NOT YET ASSIGNED 1631
		Examiner Name	NOT YET ASSIGNED M. Miller
Sheet 6 of 9	Attorney Docket Number	FERN-PO13	

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MM	22.	CELL-BASED DETECTOR LIGHTS UP FOR DEADLY GERMS; BY MAGGIE FOX; REUTERS; <a href="http://www.reuters.com/printerFriendlyPopup.jhtml?type=science">http://www.reuters.com/printerFriendlyPopup.jhtml?type=science</a> ...; RETRIEVED 7.10.2003; 2 pages	✓
MM	23.	U.S. TEAM FINDS HINTS OF HOW, WHY CANCER SPREADS By MAGGIE FOX; <a href="http://www.reuters.com/printerFriendlyPopup.jhtml?type=science">http://www.reuters.com/printerFriendlyPopup.jhtml?type=science</a> ...; RETRIEVED 7.12.2003; P. 1-10	
	24.	RNAi; SIRNA THERAPEUTICS; <a href="http://www.sirna.com/rnai/rnai.html">http://www.sirna.com/rnai/rnai.html</a>	✓
MM	25.	ZUCKERMAN, LAURIE; TAKING THE GUESSWORK OUT OF CANCER TREATMENT SICEL TECHNOLOGIES; BUSINESS LEADER; SICEL TECHNOLOGIES, 12(4): 20 (10.01.2000). Abstract.	✓
	26.	SHORT-TERM CANINE IMPLANATATION OF A GLUCOSE MONITORING TELEMETRY DEVICE; ATANASOV, P.; YANG, S.; SALEHI, C.; GHINDILIS, A. L.; WILKINS, E. Abstract.	

Examiner Signature	<i>M. Miller</i>	Date Considered	5.2.2006
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	27	MEDICAL MICROMACHINES: NEW ATDC COMPANY DEVELOPING IMPLANTABLE BLOOD PRE AND FLOW SENSOR BASED ON MICRO ELECTRO-MECHANICAL SYSTEMS (MEMS) TECHNOLOGY. ATDC NEWS.	
	28	MINIATURE IMPLANTABLE SENSOR LIKELY LIFESAVER FOR PATIENTS, OAK RIDGE, TENN., NOV 22, 2002. MEDTRONICS NEWS RELEASES.	
	29	RESEARCH PRESENTED AT ADA ANNUAL MEETING DEMONSTRATES ACCURACY AND FEASIBILITY OF ARTIFICIAL PANCREAS COMPONENTS.	
MM	30	A MATHEMATICAL ANALYSIS USING FRACTALS FOR BINDING INTERACTIONS OF NUCLEAR ESTROGEN RECEPTORS OCCURRING ON BIOSENSOR SURFACES"; ANAND RAMAKRISHNAN AND AJIT SADANA; CHEMICAL ENGINEERING DEPARTMENT, UNIVERSITY OF MISSISSIPPI, P.O. BOX 1898.	ANALYT. BIOCHEM., 303:78-92 (2002)
	31	PLASTIC-BASED DISPOSABLE SMART BIOCHIPS WITH INTEGRATED BIOSENSORS FOR BLOOD ANALYSIS AND CLINICAL DIAGNOSTICS"; CHONG H. AHN & JIN-WOO CHOI, MICROSYSTEMS AND BIOMEMS LAB DEPARTMENT OF ELECTRICAL & COMPUTER SCIENCE UNIVERSITY OF CINCINNATI; <a href="http://www.healthtech.com/2001/mfb/abstracts/ahn.htm">http://www.healthtech.com/2001/mfb/abstracts/ahn.htm</a> . B	

Examiner Signature	M. Miller	Date Considered	5.2.2006
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MM	32.	"GENE VARIANT TIED TO INCREASED SUSCEPTIBILITY TO CANCER RESEARCH FIND OTHER FACTORS ARE ALSO PART OF EQUATION." DAVID PERLMAN; WEDNESDAY, AUGUST 6, 2003. URL: <a href="http://sfgate.com/cgi-bin/article.cgi?f=/c/a/2003/08/06/MN131526.DTL">http://sfgate.com/cgi-bin/article.cgi?f=/c/a/2003/08/06/MN131526.DTL</a> . (P. 1-2)	
MM	33.	"CANARY CHIP WARNS OF DANGER FROM BIOAGENTS"; RHONDA ASCIERTO; WWW.SVBIZINK.COM; Friday, June 20, 2003. (P.1-2)	
MM	34.	"MICROARRAYS & PROTEIN CHIPS GLOSSARY", <a href="http://www.genomicglossaries.com/content/printpage.asp?REF=/content/microarrays&amp;protein">http://www.genomicglossaries.com/content/printpage.asp?REF=/content/microarrays&amp;protein</a> ; RETRIEVED 6.27.2003; (P.1-20)	
MM	35.	"MICROARRAYS & PROTEIN CHIPS CATEGORIES"; <a href="http://www.genomicglossaries.com/content/printpage.asp?REF=/content/microarrays&amp;protein">http://www.genomicglossaries.com/content/printpage.asp?REF=/content/microarrays&amp;protein</a> ; RETRIEVED 6.27.2003/P.1-23)	
MM	36.	JIM ROGERS; JULIE QUICK; "USDA STRENGTHENS 2003 PERMIT CONDITIONS FOR FIELD TESTING GENETICALLY ENGINEERED PLANTS"; <a href="http://www.usda.gov/news/releases/2003/03/aphis030603.htm">http://www.usda.gov/news/releases/2003/03/aphis030603.htm</a> ; PRESS RELEASE FROM ANIMAL & PLANT HEALTH INSPECTION	

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		First Named Inventor	FERNANDEZ, D.		
		Art Unit	NOT YET ASSIGNED 1631		
		Examiner Name	NOT YET ASSIGNED M. Miller		
Sheet	9	of	9	Attorney Docket Number	FERN-PO13

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	37.	INTELLISENSE DRIVES MEMS PRODUCT DESIGN, DEVELOPMENT, AND MANUFACTURING; JOURNAL: SENSOR BUSINESS DIGEST	
	38.	"AN IMPLANTABLE DEVICE TO PREDICT AND PREVENT SEIZURES"; DICHTER, MARC A; NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE.	
	39.	"WIRELESS NETWORKING SOLUTIONS FOR SMART SENSOR BIOMEDICAL APPLICATIONS"; BY SCHWIEBERT, LOREN; WAYNE STATE UNIVERSITY ELECTRICAL & COMPUTER ENGINEERING.	
	40.	A 128X128 CMOS BIO-SENSOR ARRAY FOR EXTRACELLULAR RECORDING OF NEURAL ACTIVITY; EVANSMAA, et al; 2003 IEEE INTERNATIONAL SOLID-STATE CIRCUITS CONFERENCE.	
	41.	CHIP SENSES TRACE DNA; AN MIT ENTERPRISE TECHNOLOGY REVIEW.	

Examiner Signature	<i>M. Miller</i>	Date Considered	5.2.2006
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Substitute for form 1449/PTO

*(Use as many sheets as necessary)*

Sheet	1	of	3
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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**Complete if Known**

Application Number	10/646,682
Filing Date	8/22/2003
First Named Inventor	Dennis S. Fernandez
Art Unit	<del>3736</del> 1631
Examiner Name	<del>Not Yet Assigned</del> M. Miller
Attorney Docket Number	FERN-P013

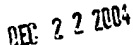
## U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	7
		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)				
MM	1	WO 03/005628 A3	1/16/2003	Watkins, Steven		
MM	2	WO 97/09678 A1	3/13/1997	Laurino, Joseph		
MM	3	WO 01/78652 A3	10/25/2001	Kaddurah-Daouk		
MM	4	WO 02/06566 A1	1/24/2002	Kooistra, et al		
MM	5	WO 2003/017177 A3	2/27/2003	Van Der Greef		
MM	6	WO 02/09119 A1	1/31/2002	Takahashi		

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Substitute for form 1449/PTO

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Sheet 2

of 3

**Complete if Known**

Application Number	10/646.682
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Filing Date	8/22/2003
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First Named Inventor	Dennis S. Fernandez
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Art Unit	<del>3736</del> 1681
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Examiner Name	Not Yet Assigned <i>M. M. [Signature]</i>
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Attorney Docket Number	FERN-P013
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## U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>o</sup>
		Country Code <sup>2</sup> *Number <sup>4</sup> *Kind Code <sup>3</sup> (if known)				
MM	7	EP 1 246 114 A3	7/21/2004	Patil, et al.		

Examiner Signature	<i>W. Miller</i>	Date Considered	5/1/06
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3

10/646,682

8/22/2003

**Dennis S. Fernandez**

~~3736~~ | 687

~~Not Yet Assigned~~ ~~1637~~ M. M. Kelly

**FERN-P013**

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Application Number	10/646,682
Filing Date	8/22/2003
First Named Inventor	Dennis S. Fernandez
Art Unit	3736 1637
Examiner Name	Not Yet Assigned M. Miller
Attorney Docket Number	FERN-P013

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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**Complete if Known**

<b>Application Number</b>	10/646,682
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<b>Filing Date</b>	8/22/2003
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First Named Inventor	Dennnis S. Fernandez
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Art Unit	8736-1621
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Examiner Name	Not Yet Assigned M. Moll
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Attorney Docket Number	FERN-P013
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Sheet	2	of	2
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### NON PATENT LITERATURE DOCUMENTS

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Examiner  
Signature

Date  
Considered

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of 2

**Complete if Known**

Application Number	10/646,682
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Filing Date	8/22/2003
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First Named Inventor	Dennis S. Fernandez
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Art Unit	3736 163
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Examiner Name	Not Yet Assigned
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Attorney Docket Number	FERN-P013
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## U. S. PATENT DOCUMENTS

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**FOREIGN PATENT DOCUMENTS**

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**Examiner  
Signature**

m. muller

Date	
Considered	

5/1/06

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/646,682
				Filing Date	8/22/2003
				First Named Inventor	Dennis S. Fernandez
				Art Unit	3736-1631
				Examiner Name	Not Yet Assigned - M. Muller
				Attorney Docket Number	FERN-P013
Sheet	2	of	2		

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Examiner Signature		Date Considered	
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet 1

of 2

**Complete if Known**

Application Number	10/646.682
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Filing Date	8/22/2003
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First Named Inventor	Fernandez, Dennis S.
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Art Unit	9796 1631
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Examiner Name	Not Yet Assigned <i>M. M. [Signature]</i>
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Attorney Docket Number	FERN-P013
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## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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Signature**

Date  
Considered

5/1/06

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/646,682
				Filing Date	8/22/2003
				First Named Inventor	Fernadez, Dennis S.
				Art Unit	3736 1621
				Examiner Name	N/A M. Miller
				Attorney Docket Number	FERN-P013
Sheet	2	of	2		

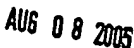
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Examiner Signature		Date Considered	
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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**Complete if Known**

Application Number	10/646,682
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Filing Date	8/22/2003
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First Named Inventor	Dennis S. Fernandez
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Art Unit	<del>3736</del>	163
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Examiner Name	Not Yet Assigned M. M. Allen
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Attorney Docket Number	FERN-P013
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Sheet	1	of	2
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## U. S. PATENT DOCUMENTS

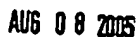
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Examiner Signature	<i>M. Miller</i>	Date Considered	5/1/06
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**Complete if Known**

Application Number	10/646,682
Filing Date	8/22/2003
First Named Inventor	Dennis S. Fernandez
Art Unit	2736 1637
Examiner Name	Not Yet Assigned M. Miller
Attorney Docket Number	FERN-P013

Sheet	2	of	2
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### NON PATENT LITERATURE DOCUMENTS

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Signature**

Date  
Considered

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